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Model #: SMART5000RT3U

SmartPro Expandable Rack/Tower UPS System - Line-interactive, sine wave power management system for networks

Highlights



- 5000VA / 5kVA line interactive, extended-run 6U rack / tower UPS (3U Power Module + 3U Battery Pack)
- Maintains sine-wave 208V and simultaneous 120V nominal output during brownouts to 151 and overvoltages to 260V
- Network communications supported via 2 USB ports, 2 serial ports, SNMP/Web card slot and EPO interface
- Current monitoring and switched PDU control via 8 single-outlet load banks
- Input: L6-30P (208V 30A) / Output: 1 L6-30R (208V), 1 L14-30R (208/120V split phase), 2 NEMA 5-20R (120V), 10 NEMA 5-15R (120V)
- 2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite's line-interactive SMART5000RT3U UPS System protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rackmount housing. In rack configuration, the power module and battery pack occupy only 3 rack spaces (3U) each. Large capacity 5000VA/4000W power module converts raw 208V AC input to fully regulated dual output 208/120 voltage for simultaneous protection of both high- and low-voltage equipment loads. True sine wave output at all times offers guaranteed compatibility with all equipment types. Includes 14 outlets, 8 of which can be individually reset via software interface to selectively reboot remote equipment or shed less critical loads to extend battery runtime for more critical equipment. Battery support can be extended indefinitely with additional external 3U rackmount battery packs. Includes slot for internal SNMP/web card, plus two DB9 and two USB enhanced monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

Applications

- Ideal for centralized UPS protection of critical 208V and 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching system

Package Includes

- SMART5000RT3U UPS System
- BP48V60RT3U battery pack
- PowerAlert Software and cabling
- Mounting hardware
- Instruction manual with warranty information

Features

- Large 5000VA/4000W output capacity with full-time sine wave output offers guaranteed compatibility with all equipment types
- High power density 5kVA power module and battery pack occupy only 3 rack spaces (3U) each (UPS and battery pack require 6U total installed)
- 38 min. half load runtime, expandable with multiple external battery packs (part# BP48V60RT3U)

- Line-interactive voltage regulation corrects severe brownouts and overvoltages without using battery power
- Dual voltage output is simultaneously compatible with both 208V and 120V equipment
- 14 total outlets (120V: 10 x 5-15R, 2 x 5-20R/208V: 1 x L6-30R, 1 x L14-30R)
- Diagnostic LEDs provide visual indication of 17 separate performance conditions
- Included PowerAlert Software provides e-mail notification of power problems and simultaneous automatic unattended shutdown of multiple servers
- 4 built-in communications ports (2 x DB9, 2 x USB) for remote monitoring and unattended shutdown
- Slot for SNMP/web card [SNMPWEBCARD](#) and environmental sensor [ENVIROSENSE](#) for remote communications in large IP environments
- 8 customized load management receptacles can be individually powered off and back on again via software interface to reboot remote equipment or perform "load shedding" of less critical loads to extend battery runtime for the most critical equipment
- Emergency Power Off (EPO) interface for emergency shutoff in large facilities
- Hot-swappable/user replaceable batteries allow on-site battery replacement through the front panel without powering off connected equipment or removing the UPS from the rack
- UPS battery set ships fully assembled and ready for connection to the power module, no time consuming, connection of individual internal batteries by user is necessary
- \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada Only). No warranty cards required for coverage!
- NAFTA compliant
- 2-year manufacturer's product warranty

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	208V AC
Frequency compatibility	60 Hz
OUTPUT	
Output VA	5000
Output watts	4000
Output nominal voltage	208/120V AC
Output voltage regulation	LINE MODE: Sine wave line voltage 208V (-10% +20%) plus 120V nominal BATTERY MODE: Sine wave output within +/-5% of 208V / 120V nominal
Output frequency regulation	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type	10 x NEMA 5-15R, 2 x NEMA 5-20R, 1 x NEMA L6-30R, 1 x NEMA L14-30R
Customized load management receptacles	"8 individually controllable outlets support load shedding and remote reboot on demand of locked network devices. Controllable via PowerAlert software to switch off optional loads, like monitors, to increase available runtime for servers and other critical devices. "
Overload protection	Resettable circuit breaker (3 total, 15A each)
INPUT	
Maximum input amps	4560 watts
Input connection type	NEMA L6-30P
Input cord length	10 ft., 10 gauge
Recommended Electrical Service	30A 208V
BATTERY	
Full load runtime	16 min. (5000VA), add 1 BP48V60RT3U for 38 min.
Half load runtime	38 min. (2500VA), add 1 BP48V60RT3U for 86 min.
Expandable battery runtime	Supports extended runtime with optional external battery packs BP48V242U (limit 1) and BP48V60RT3U (multi-pack compatible)

DC system voltage	48V DC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	2-4 hours to 90%
VOLTAGE REGULATION	
Voltage regulation description	Line-interactive UPS offers 2 boost levels of brownout correction and a single level of overvoltage adjustment to maintain usable, computer grade output without consuming battery power
Overvoltage correction	Input voltages between 240V and 260V AC are reduced by 12%
Direct pass through	Input voltages between 200V and 239V AC are passed through to equipment unchanged
Brownout correction	Input voltages between 180V and 199V AC are boosted by 12%
Severe brownout correction	Input voltages between 151V and 179V AC are boosted by 24%
LEDS ALARMS & SWITCHES	
Front panel LEDs	5 front panel LEDs — Green POWER LED, Green VOLTAGE CORRECTION LED, 3 color BATTERY CHARGE LED, 3 color OUTPUT LOAD LED, red BATTERY WARNING LED
Alarms	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
Switches	2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
SURGE / NOISE SUPPRESSION	
AC surge suppression	1020 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Shipping weight (lbs)	320
Shipping weight (kg)	145.3
Unit weight (lbs)	Power Module: 93 lbs. / Battery pack: 135 lbs.
Unit weight (kg)	Power Module: 42.2kg / Battery Pack: 61.3kg
Unit Dimensions (HWD/in)	Power Module 5.25 x 17.5 x 22.5, Battery Pack 5.25 x 17.5 x 22.75
Unit Dimensions (HWD/cm)	Power Module 13.3 x 44.5 x 57.2, Battery Pack 13.3 x 44.5 x 57.8
Material of construction	Steel
Form factors supported	Rack (6U)
Cooling method	Built-in dual cooling fans
Battery Access	Includes 1 BP48V60RT3U external battery pack. External battery packs may be disconnected and replaced while the UPS is running connected loads in line power mode.
ENVIRONMENTAL	
Relative Humidity	0 to 95%, non-condensing

Storage Temperature	+5 to +122 degrees Fahrenheit
Operating Temperature	+32 to +104 degrees Fahrenheit
COMMUNICATIONS	
Network monitoring port	4 built-in monitoring ports, 2 xUSB & 2 x DB9. Each supports on battery, low battery, power restored, AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status messaging. Interface supports timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment. Supports reboot of all connected devices at once via software interface. Compatible with Tripp Lite's PowerAlert software.
Software and cabling included	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Ships with 4 cables, 2 x USB & 2 x DB9
SNMP compatibility	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
WatchDog compatibility	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of applications / OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	2-4 milliseconds
Low voltage transfer to battery power	Switches to battery power when line voltage drops to 151. Resets back to AC mode when line voltage increases to 159.
High voltage transfer to battery power	Switches to battery power when line voltage increases to 260. Resets back to AC mode when line voltage decreases to 254.
SPECIAL FEATURES	
EPO port	Includes RJ11 EPO (emergency power off) port and interconnection cable
TVSS grounding	Includes back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a chassis grounding point.
Cold Start	Inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	Attractive all-black color scheme
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP48V60RT3U (Optional, multi-pack compatible)
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico), NAFTA compliant
WARRANTY	
Product Warranty Period	
Connected Equipment Coverage	
Optional Coverage	3-year, 5-year, next-day and on-site warranty coverage available for select opportunities - contact Tripp Lite

Related Items

Extended Warranties		
WEXT3-5000	3-Year Extended Warranty - For SMART5000RT3U (one Power Module and Battery Pack)	Qty: [optional]
WEXT5-5000	5-Year Extended Warranty - For SMART5000RT3U (one Power Module and Battery Pack)	Qty: [optional]
External Battery Packs		
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	Qty: [optional]

SNMP Accessories		
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	Qty: [optional]
SNMPWEBCARD	For remote monitoring and control via SNMP, Web or telnet.	Qty: [optional]

Start-Up/Warranty Services		
W02-BW0	Regular business hours start-up, excludes on-site warranty.	Qty: [optional]
W02-BW2-1BD	Regular business hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area.	Qty: [optional]
W02-BW2-247	Regular business hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area.	Qty: [optional]
W02-BW3-1BD	Regular business hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-BW3-247	Regular business hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]
W02-EW0	Evening or weekend hours start-up, excludes on-site warranty.	Qty: [optional]
W02-EW2-1BD	Evening or weekend hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-EW2-247	Evening or weekend hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]
W02-EW3-1BD	Evening or weekend hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-EW3-247	Evening or weekend hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]
W02-BW1-1BD	Regular business hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area.	Qty: [optional]
W02-BW1-247	Regular business hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area.	Qty: [optional]
W02-EW1-1BD	Evening or weekend hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-EW1-247	Evening or weekend hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]

Surge Protectors		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]

Tower Stands		
2-9USTAND	Tower Stand - Expandable Tower Base Stand UPS Accessory	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=60.